

## Sarah Locklin

---

**From:** Paul, Samuel S. <sspaul@lasd.org>  
**Sent:** Wednesday, June 1, 2022 8:15 AM  
**To:** Dave Eisenberg  
**Cc:** Jeffrey Berk; Eliza Jane Whitman; Chi, David Z.  
**Subject:** RE: City of Carson Avalon Blvd camera project

Hi Dave,

I have reviewed and added my comments. I have also copied my unit sergeant, Sgt. David Chi. Please include him on all future correspondence.

Thank you,

Samuel Paul  
Deputy Sheriff  
ASAP - Advanced Surveillance And Protection Unit  
Los Angeles County Sheriff's Department  
Office - (323-881-8039  
Mobile - [REDACTED]

---

**From:** Dave Eisenberg <David.Eisenberg@ghd.com>  
**Sent:** Wednesday, June 1, 2022 4:57 AM  
**To:** Paul, Samuel S. <sspaul@lasd.org>  
**Cc:** Jeffrey Berk <Jeff.Berk@ghd.com>; Eliza Jane Whitman <ejwhitman@carsonca.gov>  
**Subject:** RE: City of Carson Avalon Blvd camera project

---

This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments

---

Deputy Paul,  
Thank you for your time yesterday. Please review the attached draft Avalon Blvd camera project RFP.

The City of Carson would like to put this out for bid this week, so a quick review is greatly appreciated.

[REDACTED]

Thanks again for your time!

**David Eisenberg** | A GHD Associate  
CTS, CCNA  
Senior Technology Consultant

**GHD Digital**  
GHD - Proudly employee-owned | [ghd.com](https://www.ghd.com)

→ Transform for Good

Connect



Please consider the environment before printing this email

---

**From:** Paul, Samuel S. <[sspaul@lasd.org](mailto:sspaul@lasd.org)>  
**Sent:** Tuesday, May 31, 2022 3:28 PM  
**To:** Dave Eisenberg <[David.Eisenberg@ghd.com](mailto:David.Eisenberg@ghd.com)>  
**Cc:** Jeffrey Berk <[Jeff.Berk@ghd.com](mailto:Jeff.Berk@ghd.com)>; Eliza Jane Whitman <[ejwhitman@carsonca.gov](mailto:ejwhitman@carsonca.gov)>  
**Subject:** RE: City of Carson Avalon Blvd camera project

Hi David,

I'm open today anytime now till whenever and tomorrow all day...call me now if you want... [REDACTED]

Regards,

Samuel Paul  
Deputy Sheriff  
ASAP - Advanced Surveillance And Protection Unit  
Los Angeles County Sheriff's Department  
Office - (323-881-8039  
Mobile - [REDACTED]

---

**From:** Dave Eisenberg <[David.Eisenberg@ghd.com](mailto:David.Eisenberg@ghd.com)>  
**Sent:** Tuesday, May 31, 2022 12:14 PM  
**To:** Paul, Samuel S. <[sspaul@lasd.org](mailto:sspaul@lasd.org)>  
**Cc:** Jeffrey Berk <[Jeff.Berk@ghd.com](mailto:Jeff.Berk@ghd.com)>; Eliza Jane Whitman <[ejwhitman@carsonca.gov](mailto:ejwhitman@carsonca.gov)>  
**Subject:** RE: City of Carson Avalon Blvd camera project

---

This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments

---

Deputy Paul,  
I hope you are doing well.

We spoke a couple of times about the City of Carson Avalon Blvd camera project.

I wanted to see your availability for a call to discuss the final equipment selection as the City would like this to go out for bid this week.

I will try to keep this to 15 minutes.

What is your availability today or tomorrow?

**David Eisenberg** | A GHD Associate  
CTS, CCNA  
Senior Technology Consultant

## GHD Digital

GHD - Proudly employee-owned | [ghd.com](http://ghd.com)

D 1 571 325 5058 E [david.eisenberg@ghd.com](mailto:david.eisenberg@ghd.com)

### → Transform for Good

Connect



Please consider the environment before printing this email

---

**From:** Paul, Samuel S. <[sspaul@lasd.org](mailto:sspaul@lasd.org)>

**Sent:** Wednesday, March 9, 2022 6:48 PM

**To:** Eliza Jane Whitman <[ejwhitman@carsonca.gov](mailto:ejwhitman@carsonca.gov)>

**Cc:** Dave Eisenberg <[David.Eisenberg@ghd.com](mailto:David.Eisenberg@ghd.com)>; Jeffrey Berk <[Jeff.Berk@ghd.com](mailto:Jeff.Berk@ghd.com)>

**Subject:** RE: City of Carson Avalon Blvd camera project

You don't often get email from [sspaul@lasd.org](mailto:sspaul@lasd.org). [Learn why this is important](#)

Hello Ms. Whitman,

You are correct in that the Sheriff's department does have its own IT personnel known as the SDN (Sheriff's Department Network). They are responsible for all the internal network systems from switching, servers, firewalls, etc. that are used by the Department. I'm not sure how the contract between a City and the Department work in regards to anything with servers, switches, and other network related things, but my guess is that is all worked out during contract negotiations. I do know that anything outside of that would not be covered by them or us, such as this citywide video system.

In this case where the City of Carson is implementing a video system for viewing by the Carson station personnel, everything from the cameras, wireless network, switching and server hardware would need to be purchased thru the RFP. None of that equipment would be used by us for any other purpose. It would remain as your equipment residing in our communications room at the station.

The SDN doesn't allow for any outside networks of any kind to be on their network for data security reasons. All of the citywide video system that we (LASD) use are not owned by the us. They are essentially a tool provided to us from folks like you. We don't have the ability to seek funding for services or hardware from the SDN for these systems since they are not seen as a Department system. They will allow for purchased hardware from trusted sources to be installed in comm rooms and some facilities on premises, but they will not allow for any of the SDN network to be joined to those isolated systems. I hope this makes sense, it might seem a little convoluted but a video network, such as the one at Carson that has cameras and other network hardware, mounted on poles and buildings outside of the control of the SDN is considered to be a foreign network.

Samuel Paul  
Deputy Sheriff  
ASAP - Advanced Surveillance And Protection Unit  
Los Angeles County Sheriff's Department  
Office - (323-881-8039  
Mobile - [REDACTED]

---

**From:** Eliza Jane Whitman <[ejwhitman@carsonca.gov](mailto:ejwhitman@carsonca.gov)>

**Sent:** Wednesday, March 9, 2022 10:46 AM

**To:** Paul, Samuel S. <[sspaul@lasd.org](mailto:sspaul@lasd.org)>

**Cc:** Dave Eisenberg <[David.Eisenberg@ghd.com](mailto:David.Eisenberg@ghd.com)>; Jeffrey Berk <[Jeff.Berk@ghd.com](mailto:Jeff.Berk@ghd.com)>

**Subject:** Re: City of Carson Avalon Blvd camera project

Hi Paul- I am trying to catch up with all of the moving parts of this project. Is it true that the Sherrif department covers /pays for their IT equipment, including servers, computers, etc? Or is it something called out in the contract that the City pays for? I understand the city paying for the cameras but I need to understand more if the city is paying for your IT equipment.

We can add your server equipment in the Camera RFP as a line item and then when the Sherrif department invoices the City, this would be a credit? Is there someone we need to work through on this? I am thinking the Sherrif would get a better price by having us include it in our RFP.

Let me know if we should have a follow up call.

Thx!

On Mar 8, 2022, at 10:43 AM, Paul, Samuel S. <[sspaul@lasd.org](mailto:sspaul@lasd.org)> wrote:

**CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.**

---

Hello Dave,

Yes, everything you have stated below is mostly accurate, however there are a couple of minor corrections if I may add. I know my cell phone connection was very bad, my apologies.

There are both Siklu EH500 and EH1200's in use along with the Firetide 72xx series radios. The EH 500TX's and Firetide 72xx's are used primarily between camera hops that eventually terminate to an endpoint where either the EH1200's or Firetides that have long backhaul links to a highpoint where the video data is brought to the head end at Carson station. The main backhaul to the Carson station is a paired/bonded link using Firetide radios due to all the video data being aggregated into one giant stream to the server. All the Firetide radios need to be replaced with more modern hardware. Since many Siklu radios are in use there now, I would suggest continued expansion with the same vendor (Siklu) to best optimize the system as a whole and for manageability.

The VMS server is pretty much dead. It is a Dell Power Edge R520 that was purchased in 2012 (I believe). It has the built-in drive bays and has multiple drive failures now. It's running Windows Server 2008 and has the DVTEL vms running on it.

There are 10 total IP cameras installed on street signal poles within the City of Carson's boundaries and 4 Arecont 180 deg. cameras at the Carson Sheriff's station. These are also running on the same VMS. Expansion of the camera system was talked about with the City officials. I would say adding a 50% network and video storage factor should be considered. Hi speed switching is also needed (min 1 Gig) with at least 16-24 ports w/POE. I will have to check but the cameras are probably running at 15fps (not sure of the resolution). 30-60 days of video retention should be adequate so we don't need a ton of storage, but more is always better should more cameras come online in the future.

**The street level cameras are the following:**

### North Sector (north of Carson Station)

S. Avalon Blvd/E. Albertoni St (S/W corner) **Axis Q6055e**

S. Main St/W. Victoria St (N/W corner) **Axis Q6055e**

S. Central Ave/E. Victoria St (S/E corner) **Axis Q6055e**

S. Avalon Blvd/E. Victoria St (N/E corner) **Axis Q6045e**

This area has multiple EH500 and EH1200 that aggregate into one data stream. A single Firetide radio streams all the data to Avalon/University (approximately 3,200' shot)

S. Avalon Blvd/E. University Dr (center median) **Axis Q6045e**

This area has a Firetide radio that streams all the aggregated video data to the Double Tree hotel (approximately 1.8 miles to the south)

### South Sector (south of Carson Station)

S. Avalon Blvd/Carson St (N/E corner) **Axis Q6045e**

S. Avalon Blvd/220<sup>th</sup> St (N/W corner) **Axis Q6045e**

S. Avalon Blvd/223<sup>rd</sup> St (N/E corner) **Axis Q6045e**

S. Avalon Blvd/Watson Center (West side) **Axis Q6045e**

This area has a Firetide radio that streams all the aggregated video data from the area to the Double Tree hotel (approximately 5,000' to the n/e)

S. Avalon Blvd/Scottsdale Ave (S/W corner) **Axis Q6045e**

Hopefully this helps with whatever you are putting together.

Regards,

Samuel Paul  
Deputy Sheriff  
ASAP - Advanced Surveillance And Protection Unit  
Los Angeles County Sheriff's Department  
Office - (323-881-8039  
Mobile - [REDACTED]

---

**From:** Dave Eisenberg <[David.Eisenberg@ghd.com](mailto:David.Eisenberg@ghd.com)>  
**Sent:** Monday, March 7, 2022 2:55 PM  
**To:** Paul, Samuel S. <[sspaul@lasd.org](mailto:sspaul@lasd.org)>  
**Cc:** Eliza Jane Whitman <[ejwhitman@carsonca.gov](mailto:ejwhitman@carsonca.gov)>; Jeffrey Berk <[Jeff.Berk@ghd.com](mailto:Jeff.Berk@ghd.com)>  
**Subject:** City of Carson Avalon Blvd camera project

---

This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments



The information contained in this communication from the sender is confidential. It is intended solely for use by the recipient and others authorized to receive it. If you are not the recipient, you are hereby notified that any disclosure, copying, distribution or taking action in relation of the contents of this information is strictly prohibited and may be unlawful.

This email has been scanned for viruses and malware, and may have been automatically archived by Mimecast, a leader in email security and cyber resilience. Mimecast integrates email defenses with brand protection, security awareness training, web security, compliance and other essential capabilities. Mimecast helps protect large and small organizations from malicious activity, human error and technology failure; and to lead the movement toward building a more resilient world. To find out more, visit our website.